

**Amendments to the Claims:**

1. (Cancelled)
2. (Currently Amended) The A bus layout design ~~of claim 1~~ comprising:  
a first electrically conductive layer including at least a first bus and a second bus,  
a second electrically conductive layer including at least a first bus and a second bus,  
an electrically insulating layer disposed between the first electrically conductive layer and  
the second electrically conductive layer,  
a plurality of vias through said electrically insulating layer conductively connecting said  
first electrically conductive layer and said second electrically conductive layer and arranged such  
that said first bus and said second bus of said first electrically conductive layer are electrically  
connected; and  
wherein said first and second electrically conductive layers and said vias are configured  
such that said second bus of said first electrically conductive layer is ultimately electrically  
connected to said first bus of said second electrically conductive layer yet said vias do not extend  
from said second bus of said first electrically conductive layer to said first bus of said second  
electrically conductive layer, wherein said plurality of vias connecting said first electrically  
conductive layer and said second electrically conductive layer are arranged such that said first  
bus and said second bus of said second electrically conductive layer are electrically connected.

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3. (Currently Amended) The bus layout design of ~~claim 1~~ claim 2, wherein said first and second bus of said first electrically conductive layer overlap said second bus of said second electrically conductive layer.

4. (Currently Amended) The bus layout design of ~~claim 1~~ claim 2, wherein said first and second buses of the first electrically conductive layer overlap said second bus of the second electrically conductive layer across the entire input/output width.

5-13. (Cancelled)

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